

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P507712

Luminaire Tested: **VERD-S-CA1-80-722-U-T2-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507712  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-80-722-U-T2-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 1500mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8183 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

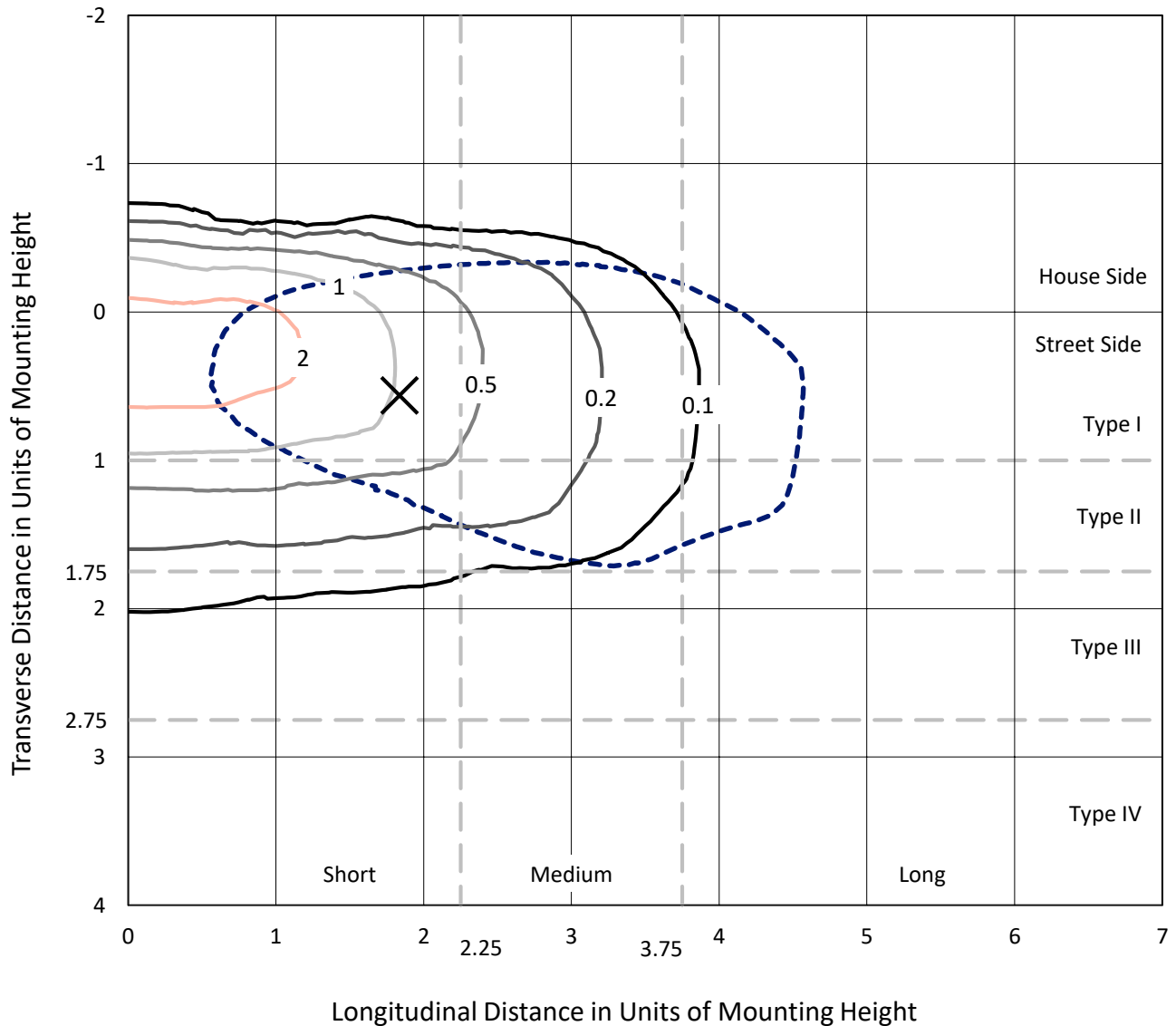
Input Watts (W): 83.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

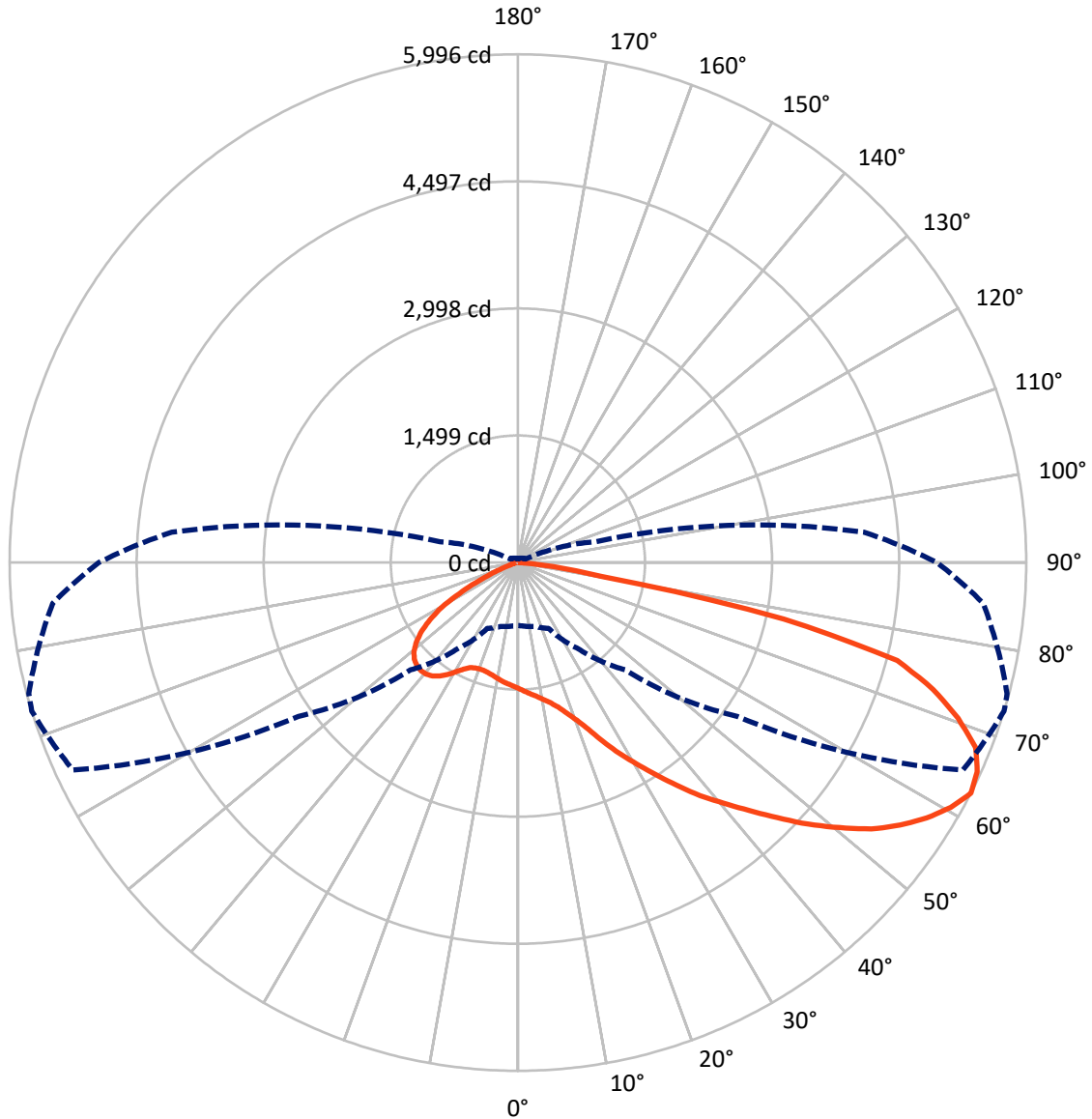
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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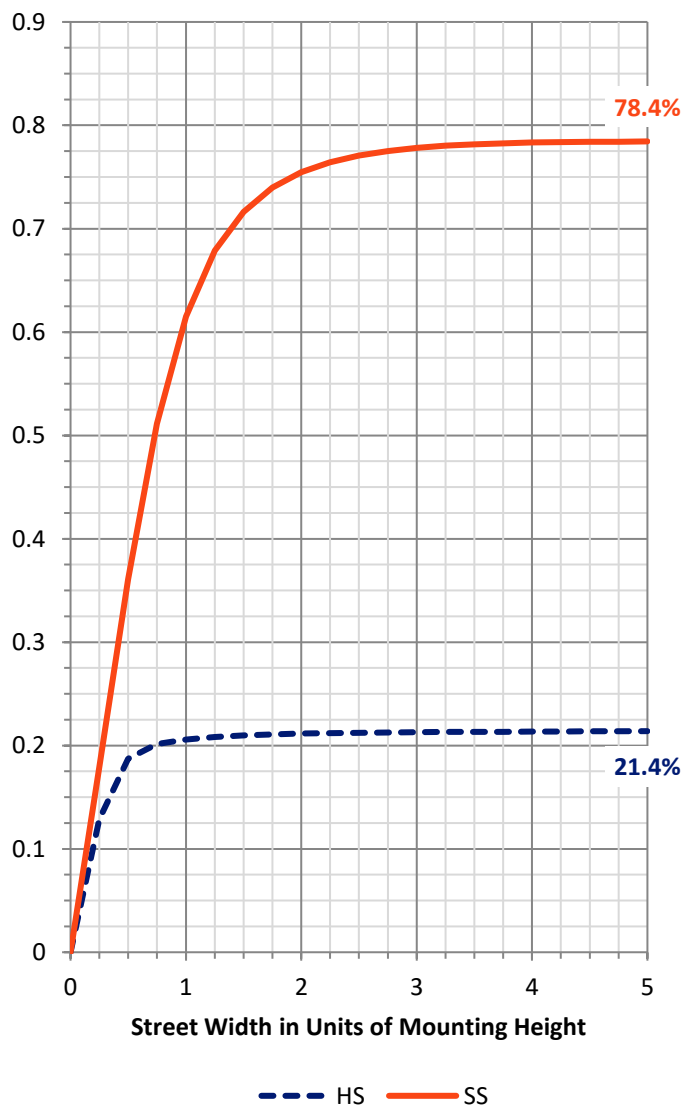
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1772.5	0.0	1772.5
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	6410.5	0.0	6410.5
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	8183.0	0.0	8183.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.1	1.7
10°-20°	428.0	5.2
20°-30°	740.3	9.0
30°-40°	1087.2	13.3
40°-50°	1413.2	17.3
50°-60°	1638.4	20.0
60°-70°	1648.9	20.2
70°-80°	1004.8	12.3
80°-90°	80.0	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8183.0	100.0
0°-180°	8183.0	100.0

**Coefficient of Utilization**



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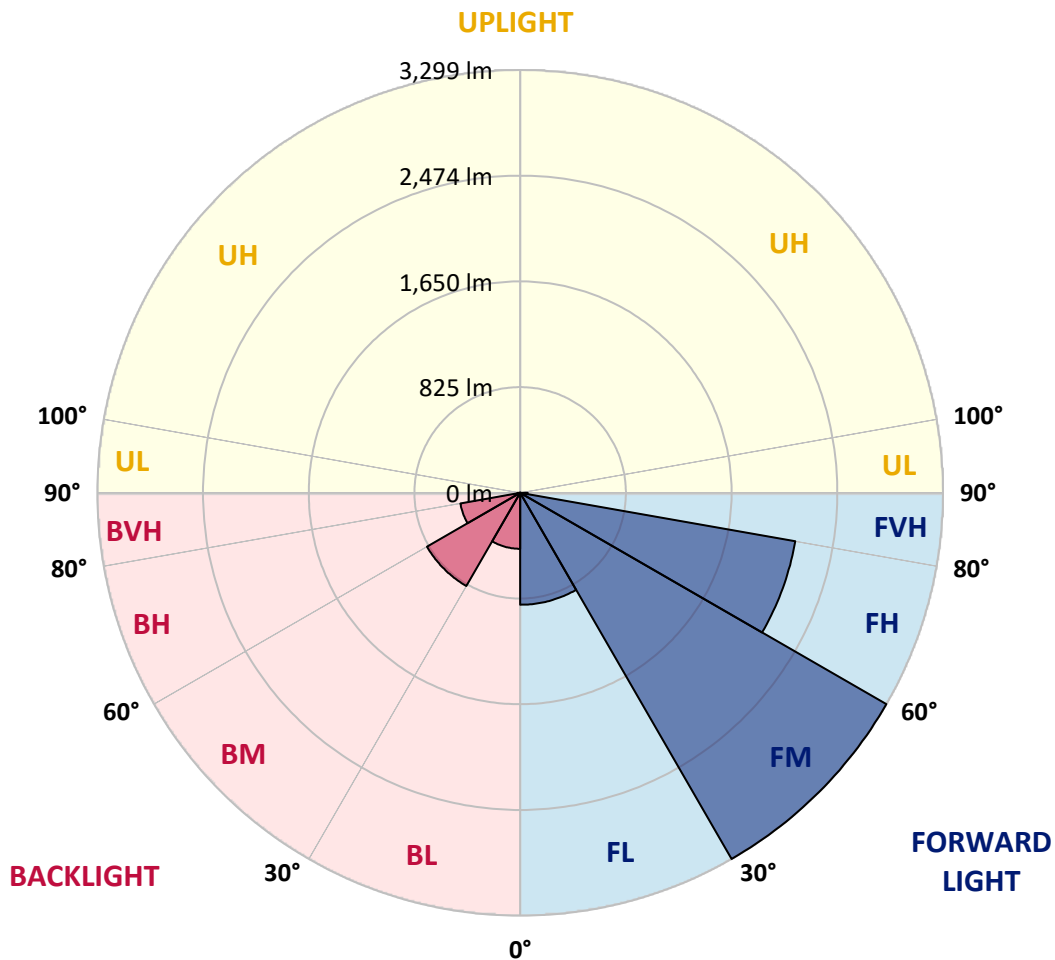
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	873.4	10.7			
FM (30°-60°)	3299.2	40.3			
FH (60°-80°)	2179.8	26.6			G2/5000
FVH (80°-90°)	58.1	0.7			G1/100
BL (0°-30°)	437.0	5.3	B1/500		
BM (30°-60°)	839.6	10.3	B1/1000		
BH (60°-80°)	474.0	5.8	B1/500		G1/500
BVH (80°-90°)	21.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1586.4	1586.4	1583.9	1581.4	1571.5	1561.5	1546.5	1534.0	1521.5	1516.5	1496.5
5°	1678.9	1678.9	1676.4	1666.4	1653.9	1636.4	1611.4	1578.9	1556.5	1554.0	1519.0
7.5°	1756.3	1753.8	1751.3	1746.3	1733.8	1711.4	1673.9	1631.4	1593.9	1583.9	1541.5
10°	1831.3	1833.8	1828.8	1816.3	1801.3	1773.8	1736.3	1686.4	1641.4	1626.4	1561.5
12.5°	1911.2	1908.7	1901.2	1886.2	1866.3	1843.8	1803.8	1753.8	1693.9	1678.9	1593.9
15°	1978.7	1981.2	1968.7	1958.7	1938.7	1913.7	1878.7	1828.8	1768.8	1751.3	1641.4
17.5°	2038.6	2038.6	2036.1	2031.1	2016.2	1998.7	1963.7	1928.7	1866.3	1838.8	1713.9
20°	2083.6	2086.1	2091.1	2101.1	2103.6	2088.6	2071.1	2046.1	1986.2	1958.7	1803.8
22.5°	2123.6	2128.6	2148.6	2178.5	2203.5	2203.5	2201.0	2198.5	2138.6	2121.1	1936.2
25°	2133.6	2141.1	2186.0	2251.0	2291.0	2323.5	2368.4	2385.9	2340.9	2311.0	2108.6
27.5°	2148.6	2156.1	2206.0	2283.5	2383.4	2455.9	2535.8	2580.8	2548.3	2518.3	2306.0
30°	2136.1	2146.1	2201.0	2311.0	2443.4	2595.8	2695.7	2763.2	2753.2	2735.7	2510.8
32.5°	2103.6	2113.6	2178.5	2313.5	2515.8	2738.2	2850.6	2955.5	2983.0	2968.0	2725.7
35°	2038.6	2048.6	2128.6	2293.5	2550.8	2845.6	3005.5	3160.4	3222.9	3212.9	2960.5
37.5°	1956.2	1956.2	2051.1	2233.5	2563.3	2928.0	3142.9	3365.3	3487.7	3472.7	3197.9
40°	1818.8	1843.8	1961.2	2168.6	2543.3	2988.0	3275.3	3577.6	3730.0	3722.5	3455.2
42.5°	1681.4	1701.4	1813.8	2056.1	2495.8	3023.0	3385.2	3800.0	3997.3	3992.3	3702.5
45°	1559.0	1574.0	1666.4	1901.2	2395.9	3033.0	3490.2	4037.3	4292.1	4282.1	3954.9
47.5°	1401.6	1431.5	1549.0	1756.3	2258.5	3003.0	3587.6	4334.6	4611.9	4601.9	4227.2
50°	1061.8	1081.8	1326.6	1638.9	2081.1	2928.0	3667.6	4626.9	4914.2	4894.2	4474.5
52.5°	964.4	976.8	1054.3	1494.0	1916.2	2793.1	3717.5	4976.7	5221.5	5189.0	4729.3
55°	901.9	911.9	956.9	1196.7	1771.3	2565.8	3732.5	5306.5	5468.9	5436.4	4964.2
57.5°	846.9	851.9	896.9	1019.3	1598.9	2278.5	3680.0	5551.3	5686.2	5651.2	5166.6
60°	789.5	797.0	839.4	929.4	1391.6	2013.7	3517.7	5746.2	5866.1	5836.1	5343.9
62.5°	742.0	752.0	779.5	856.9	1241.7	1788.8	3162.9	5791.1	5996.0	5973.5	5508.8
65°	684.5	692.0	727.0	792.0	1086.8	1648.9	2803.1	5658.7	5953.5	5981.0	5601.3
67.5°	617.1	624.6	654.6	704.5	911.9	1501.5	2488.3	5471.4	5823.6	5861.1	5533.8
70°	534.6	539.6	569.6	617.1	757.0	1309.1	2158.6	5196.5	5508.8	5536.3	5266.5
72.5°	444.7	444.7	467.2	522.2	622.1	1084.3	1731.3	4616.9	5124.1	5191.5	4814.3
75°	187.4	197.4	237.3	287.3	397.2	792.0	1184.2	3555.1	4621.9	4679.4	4252.2
77.5°	37.5	40.0	45.0	67.5	104.9	344.8	367.3	1551.5	3207.9	3245.3	3105.4
80°	30.0	30.0	32.5	50.0	70.0	159.9	119.9	507.2	999.3	1286.6	1658.9
82.5°	10.0	12.5	17.5	27.5	35.0	35.0	40.0	254.8	494.7	532.1	669.6
85°	5.0	5.0	7.5	10.0	10.0	10.0	10.0	45.0	84.9	102.4	142.4
87.5°	2.5	0.0	0.0	0.0	0.0	0.0	2.5	5.0	7.5	7.5	10.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1486.5	1479.0	1461.5	1449.0	1431.5	1416.6	1399.1	1389.1	1384.1	1381.6	1376.6
5°	1499.0	1479.0	1444.0	1406.6	1374.1	1349.1	1314.1	1296.6	1286.6	1281.6	1279.1
7.5°	1514.0	1489.0	1429.0	1371.6	1314.1	1271.7	1229.2	1201.7	1189.2	1186.7	1184.2
10°	1524.0	1484.0	1404.1	1341.6	1266.7	1199.2	1149.2	1116.8	1099.3	1096.8	1094.3
12.5°	1544.0	1491.5	1384.1	1294.1	1216.7	1129.2	1076.8	1039.3	1021.8	1006.8	1006.8
15°	1576.4	1509.0	1374.1	1254.2	1151.7	1066.8	999.3	959.4	946.9	926.9	921.9
17.5°	1631.4	1541.5	1366.6	1214.2	1091.8	1006.8	926.9	884.4	876.9	859.4	849.4
20°	1698.9	1588.9	1371.6	1176.7	1029.3	931.9	851.9	809.5	784.5	769.5	764.5
22.5°	1806.3	1658.9	1389.1	1149.2	974.4	864.4	779.5	712.0	657.1	637.1	637.1
25°	1958.7	1778.8	1419.1	1126.7	919.4	799.5	694.5	579.6	507.2	479.7	472.2
27.5°	2131.1	1931.2	1489.0	1106.8	874.4	727.0	572.1	444.7	367.3	342.3	342.3
30°	2328.4	2091.1	1574.0	1094.3	819.5	617.1	432.2	324.8	262.3	234.8	232.3
32.5°	2523.3	2256.0	1673.9	1084.3	762.0	482.2	312.3	237.3	184.9	164.9	167.4
35°	2718.2	2418.4	1758.8	1084.3	667.1	347.3	222.4	164.9	132.4	122.4	122.4
37.5°	2938.0	2600.8	1826.3	1069.3	524.7	247.3	152.4	119.9	109.9	104.9	104.9
40°	3165.4	2770.7	1871.3	1036.8	374.8	169.9	107.4	104.9	99.9	92.4	89.9
42.5°	3377.7	2965.5	1898.7	974.4	244.8	112.4	94.9	97.4	94.9	82.4	79.9
45°	3602.6	3122.9	1913.7	849.4	162.4	92.4	84.9	89.9	92.4	82.4	79.9
47.5°	3827.5	3295.3	1923.7	662.1	107.4	89.9	79.9	87.4	89.9	79.9	77.4
50°	4064.8	3452.7	1908.7	424.7	94.9	84.9	77.4	79.9	84.9	79.9	77.4
52.5°	4272.2	3595.1	1838.8	237.3	92.4	82.4	72.5	75.0	82.4	77.4	77.4
55°	4484.5	3735.0	1708.9	139.9	89.9	77.4	72.5	75.0	77.4	72.5	75.0
57.5°	4676.9	3869.9	1514.0	114.9	89.9	75.0	75.0	70.0	70.0	65.0	65.0
60°	4824.3	3992.3	1281.6	107.4	84.9	77.4	70.0	65.0	60.0	55.0	55.0
62.5°	4941.7	4097.3	951.9	99.9	82.4	75.0	65.0	57.5	50.0	45.0	45.0
65°	5006.7	4119.8	672.1	89.9	77.4	72.5	60.0	50.0	40.0	37.5	37.5
67.5°	4931.7	4002.3	409.7	84.9	72.5	70.0	57.5	45.0	35.0	32.5	32.5
70°	4644.4	3687.5	229.8	77.4	65.0	62.5	52.5	40.0	32.5	27.5	27.5
72.5°	4169.7	3225.4	114.9	65.0	55.0	55.0	47.5	35.0	30.0	25.0	25.0
75°	3522.7	2645.7	82.4	47.5	45.0	45.0	40.0	32.5	27.5	22.5	22.5
77.5°	2580.8	1743.8	67.5	40.0	32.5	32.5	35.0	30.0	25.0	20.0	20.0
80°	1336.6	864.4	57.5	30.0	27.5	25.0	25.0	25.0	20.0	17.5	17.5
82.5°	592.1	332.3	37.5	22.5	22.5	20.0	20.0	20.0	17.5	15.0	15.0
85°	114.9	62.5	20.0	17.5	15.0	15.0	15.0	12.5	12.5	12.5	12.5
87.5°	10.0	10.0	10.0	10.0	10.0	7.5	7.5	7.5	7.5	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)